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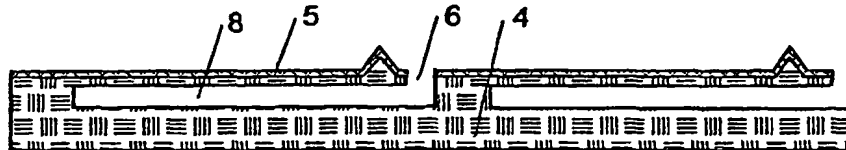
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(54) Title: METHOD OF FORMING ATOMIC FORCE MICROSCOPE TIPS



(57) Abstract: The invention relates to a method for forming silicon atomic force microscope tips. The method includes the steps of depositing a masking layer onto a first layer of doped silicon so that some square or rectangular areas of the first layer of doped silicon are not covered by the masking layer, etching pyramidal apertures in the first layer of doped silicon, removing the masking layer, depositing a second layer of doped silicon onto the first layer of doped silicon, the second layer of doped silicon being oppositely doped to the first layer of doped silicon and etching away the first layer of doped silicon. Further steps may be added to form the atomic force microscope tips at the end of cantilevers.

INTERNATIONAL SEARCH REPORT

Inter Application No
PCT/SG 03/00119

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G12B21/02 G12B21/08 B81B1/00 B81B3/00 B81C1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G12B B81B B81C G01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 883 387 A (MATSUYAMA KATSUHIRO ET AL) 16 March 1999 (1999-03-16) figures 3,4 column 8, line 20 -column 9, line 38 ---	1-10
A	EP 0 763 844 A (CANON KK) 19 March 1997 (1997-03-19) figures 3,5-7,10-12 column 5, line 38 -column 16, line 35 ---	1-10
A	US 4 307 507 A (GRAY HENRY F ET AL) 29 December 1981 (1981-12-29) figures 1-14 column 2, line 18 -column 3, line 49 --- -/--	1-10

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>EP 1 202 047 A (IMEC INTER UNI MICRO ELECTR) 2 May 2002 (2002-05-02) figures 3,5,8 paragraphs '0031!-'0051! -----</p>	1-10

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/SG 03/00119

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